

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-051-02191 County Marshall District Franklin
Quad Powhatan Point Pad Name Old Crow Field/Pool Name _____
Farm name Donna Vivian Yoho (TOD) Gary Lance Yoho Well Number Old Crow N-20HU
Operator (as registered with the OOG) Tug Hill Operating, LLC
Address 380 Southpointe Boulevard, Plaza II, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,403,192.49 Easting 520,299.44
Landing Point of Curve Northing 4,403,869.6 Easting 521,347.8
Bottom Hole Northing 4,407,095.6 Easting 519,479.6

Elevation (ft) 1264.99' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 6/13/2019 Date drilling commenced 6/18/2019 Date drilling ceased 4/3/2020
Date completion activities began 8/3/2020 Date completion activities ceased 8/18/2020
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 912' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1595' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 814-820', 906-912' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: [Signature] 05/13/2022
12/7/2020

API 47-051 - 02191 Farm name Donna Vivian Yoho (TOD) Gary Lance Yoho Well number Old Crow N-20HU

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36"	30"	100'	NEW	94.5#	N/A	Y
Surface	26"	20"	988'	NEW	106.5#	N/A	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,826'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/5"	11,071'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	25,033'	NEW	23#	N/A	Y
Tubing		2 7/8"	12,517'	NEW	4.7#	N/A	
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A		15.6	1.2		0	8
Surface	A	1716	15.6	1.2	2073	0	8
Coal							
Intermediate 1	A	1993	14.5	1.19	2625	0	8
Intermediate 2	A	4115	14.5	1.19	4794	0	8
Intermediate 3							
Production	A	5585	16.5	1.17	6253	0	8
Tubing							

Drillers TD (ft) 25,077' Loggers TD (ft) ma
 Deepest formation penetrated Trenton Plug back to (ft) n/a
 Plug back procedure n/a

Kick off depth (ft) 11,502'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 3 centralizers on surface casing at equal distance.
Intermediate -- 1 centralizer every other joint.
 Production -- one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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**OLD CROW N-20HU
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	8/3/2020	24843	24891	2	Utica
2	8/3/2020	24629	24778	48	Utica
3	8/4/2020	24430	24579	48	Utica
4	8/4/2020	24232	24381	48	Utica
5	8/4/2020	24033	24182	48	Utica
6	8/4/2020	23834	23983	48	Utica
7	8/5/2020	23636	23785	48	Utica
8	8/5/2020	23437	23586	48	Utica
9	8/5/2020	23238	23387	48	Utica
10	8/6/2020	23040	23189	48	Utica
11	8/6/2020	22841	22990	48	Utica
12	8/6/2020	22642	22791	48	Utica
13	8/7/2020	22443	22592	48	Utica
14	8/7/2020	22245	22394	48	Utica
15	8/7/2020	22046	22195	48	Utica
16	8/7/2020	21847	21996	48	Utica
17	8/7/2020	21649	21798	48	Utica
18	8/8/2020	21450	21599	48	Utica
19	8/8/2020	21251	21400	48	Utica
20	8/9/2020	21053	21202	48	Utica
21	8/9/2020	20854	21003	48	Utica
22	8/9/2020	20655	20804	48	Utica
23	8/9/2020	20456	20605	48	Utica
24	8/9/2020	20258	20407	48	Utica
25	8/10/2020	20059	20208	48	Utica
26	8/10/2020	19860	20009	48	Utica
27	8/10/2020	19662	19811	48	Utica
28	8/10/2020	19463	19612	48	Utica
29	8/11/2020	19264	19413	48	Utica
30	8/11/2020	19066	19215	48	Utica
31	8/11/2020	18867	19016	48	Utica
32	8/11/2020	18668	18817	48	Utica
33	8/11/2020	18469	18618	48	Utica
34	8/12/2020	18271	18420	48	Utica
35	8/12/2020	18072	18221	48	Utica
36	8/12/2020	17873	18022	48	Utica
37	8/12/2020	17675	17824	48	Utica
38	8/13/2020	17476	17625	48	Utica
39	8/13/2020	17277	17426	48	Utica
40	8/13/2020	17079	17228	48	Utica
41	8/13/2020	16880	17029	48	Utica

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42	8/14/2020	16681	16830	48	Utica
43	8/14/2020	16482	16631	48	Utica
44	8/14/2020	16284	16433	48	Utica
45	8/14/2020	16085	16234	48	Utica
46	8/14/2020	15886	16035	48	Utica
47	8/14/2020	15688	15837	48	Utica
48	8/15/2020	15489	15638	48	Utica
49	8/15/2020	15290	15439	48	Utica
50	8/15/2020	15092	15241	48	Utica
51	8/15/2020	14893	15042	48	Utica
52	8/16/2020	14694	14843	48	Utica
53	8/16/2020	14495	14644	48	Utica
54	8/16/2020	14297	14446	48	Utica
55	8/17/2020	14098	14247	48	Utica
56	8/17/2020	13899	14048	48	Utica
57	8/17/2020	13701	13850	48	Utica
58	8/17/2020	13502	13651	48	Utica
59	8/18/2020	13303	13452	48	Utica
60	8/18/2020	13105	13254	48	Utica
61	8/18/2020	12906	13055	48	Utica
62	8/18/2020	12707	12856	48	Utica

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STIMULATION INFORMATION PER STAGE

Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	84	11701	2	6649	148650	5864	0
2	87	11764	48	7247	500015	10467	0
3	84	11740	48	7015	500208	10364	0
4	88	11813	48	7427	500295	10339	0
5	87	11686	48	7664	500025	10432	0
6	87	11692	48	7855	500201	10379	0
7	88	11556	48	7064	502630	10300	0
8	89	11588	48	8237	500105	13118	0
9	89	11502	48	7679	500250	9212	0
10	88	11555	48	7749	501470	9336	0
11	89	11539	48	7198	500438	9224	0
12	90	11546	48	7325	501097	9210	0
13	90	11225	48	8101	500450	9172	0
14	90	11273	48	7467	501490	9167	0
15	90	11201	48	6962	500020	9168	0
16	90	11130	48	7788	499959	9178	0
17	90	11076	48	6149	500350	9136	0
18	90	10911	48	7889	500320	9130	0
19	90	11046	48	7380	500515	9138	0
20	90	10918	48	7910	499832	9188	0
21	90	11064	48	7634	500270	9127	0
22	90	11023	48	7972	499731	9115	0
23	90	11005	48	7679	500355	9086	0
24	89	10878	48	7757	500312	9045	0
25	90	10752	48	7953	499963	9091	0
26	90	10817	48	7874	500343	9103	0
27	90	10859	48	7742	500096	9080	0
28	89	10901	48	7131	500421	11825	0
29	91	10962	48	7362	500987	9147	0
30	90	10865	48	7319	500853	9018	0
31	90	11206	48	7494	499982	8996	0
32	89	10634	48	7499	500283	8980	0

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Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
33	90	10579	48	7058	500090	9000	0
34	90	10512	48	7803	499888	8973	0
35	91	10469	48	7391	499936	8987	0
36	90	10377	48	7650	499952	9030	0
37	90	10751	48	7615	500053	9793	0
38	91	10579	48	7387	500028	8937	0
39	90	10439	48	7303	500150	8947	0
40	90	10150	48	7596	500136	10380	0
41	90	10526	48	7460	499374	8983	0
42	90	10415	48	7267	500053	8952	0
43	90	10405	48	6445	500103	8910	0
44	90	10407	48	6713	499894	8915	0
45	90	10330	48	7890	500007	8878	0
46	89	10337	48	7790	500141	8893	0
47	90	10372	48	7781	500136	8879	0
48	90	10441	48	6189	500260	8880	0
49	91	10476	48	7818	500148	8865	0
50	89	10509	48	7149	500397	9798	0
51	89	10728	48	6919	500261	8893	0
52	90	10585	48	7334	500237	9131	0
53	90	10305	48	7229	500464	8878	0
54	88	10295	48	7130	501322	8771	0
55	90	10321	48	8044	501048	10345	0
56	90	10595	48	7235	500644	9855	0
57	90	10693	48	7568	501085	8815	0
58	90	10702	48	7726	501060	8797	0
59	91	10901	48	8094	500178	8801	0
60	90	10889	48	7668	500222	8807	0
61	90	10352	48	7874	507912	8880	0
62	90	10595	48	7559	507837	8872	0

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LITHOLOGY/FORMATION	TOP DEPTH IN FT/ Name TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID
Maxton	2082	2172	2082	2172	Sandstone
Big Lime	2172	2242	2172	2242	Limestone
Big Injun	2242	2526	2242	2526	Sandstone
Weir	2526	2721	2526	2721	Sandstone
Berea	2721	3066	2721	3066	Sandstone
Gordon	3066	3120	3066	3121	Sandstone
Fifty Foot	3120	3668	3121	3682	Sandstone
Speechley	3668	5090	3682	5281	Sandstone
Benson	5090	5445	5281	5681	Sandstone
Alexander	5445	6039	5681	6349	Siltstone
Rhinestreet	6039	6463	6349	6829	Black shale
Middlesex	6463	6529	6829	6904	Black shale
Geneseo/Burkett	6529	6564	6904	6943	Black shale
Tully	6564	6599	6943	6982	Limestone
Hamilton	6599	6645	6982	7034	Grey shale
Marcellus	6645	6698	7034	7094	Black shale
Onondaga	6698	6928	7094	7354	Limestone
Oriskany	6928	7030	7354	7470	Sandstone
Heiderberg	7030	7388	7470	7870	Limestone
Salina	7388	8431	7870	9046	Salt/Anhydrite/LS
Lockport	8431	8802	9046	9464	Dolomite
Rose Hill	8802	9070	9464	9772	Shale
Packer Shell	9070	9265	9772	9991	Limestone
Clinton/Tuscarora	9265	9378	9991	10117	Sandstone
Juniata/Queenston	9378	10151	10117	10983	Red Shale
Reedsville	10151	11111	10983	12100	Grey Shale
Utica	11111	11374	12100	12572	Black Shale
Point Pleasant	11374	-	12572	-	Shale/Limestone

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/3/2020
Job End Date:	8/18/2020
State:	West Virginia
County:	Marshall
API Number:	47-051-02191-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Old Crow N 20HU
Latitude:	39.77843034
Longitude:	-80.76295392
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,313
Total Base Water Volume (gal):	24,191,160
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Tug Hill Operating	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.45935	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	10.46251	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	2.67926	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.23962	None
StimStream FR 9800	Chemstream	Friction Reducer	Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.10430	None
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01747	None
			Butene, homopolymer	9003-29-6	25.00000	0.01747	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00210	None
MC MX 9-4743	Multi-Chem	Biocide	Sodium Nitrate	7631-99-4	60.00000	0.02209	None
D-7750W	Multi-Chem	Scale Inhibitor					Gas

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		Methanol	67-56-1	60.00000	0.00502	None
ProFE 105	Iron Control	Phosphonic Acid Salt	Proprietary	5.00000	0.00042	None
ProHib 100	Acid Inhibitor	Citric Acid	77-92-9	100.00000	0.00104	None
		2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00013	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.						
Other Chemical(s)	Listed Above	See Trade Name(s) List				
		Water	732-18-5	85.00000	0.23962	
		Butene, homopolymer	9003-29-6	25.00000	0.01747	
		Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00210	
		Phosphonic Acid Salt	Proprietary	5.00000	0.00042	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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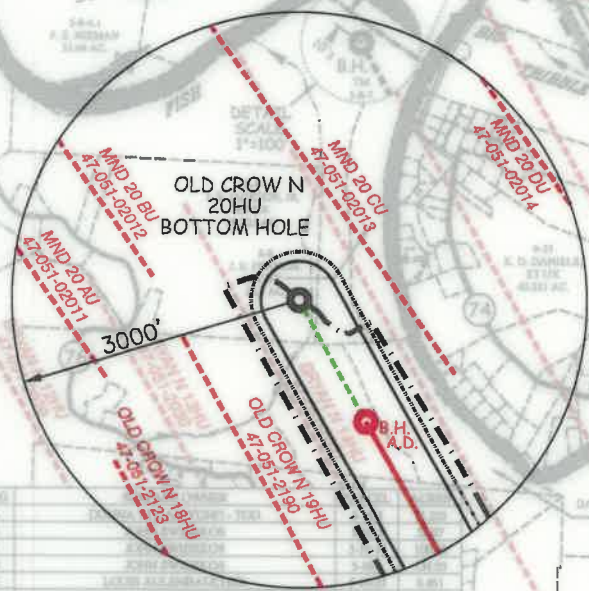
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OLD CROW N LEASE
UTICA UNIT - 503.48 AC ±
WELL 20HU
TUG HILL OPERATING

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°50'00"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 468,138.92	E. 1,613,557.53
NAD'83 GEO.	LAT-(N) 39.778430	LONG-(W) 80.762954
NAD'83 UTM (M)	N. 4,403,192.49	E. 520,299.44
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 470,292.3	E. 1,617,029.2
NAD'83 GEO.	LAT-(N) 39.784475	LONG-(W) 80.750709
NAD'83 UTM (M)	N. 4,403,866.2	E. 521,346.1
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 482,252.1	E. 1,610,387.4
NAD'83 GEO.	LAT-(N) 39.817049	LONG-(W) 80.774945
NAD'83 UTM (M)	N. 4,407,476.0	E. 519,261.8

T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°45'00"

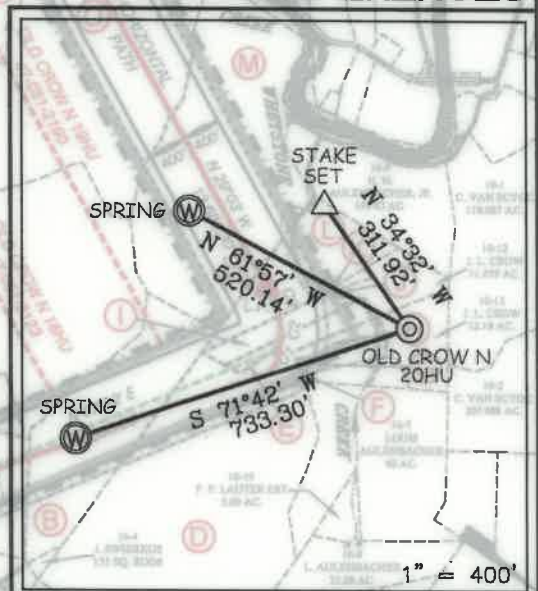


AS DRILLED COORDINATES FOR WELL NO. 20HU		
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 468,138.92	E. 1,613,557.53
NAD'83 GEO.	LAT-(N) 39.778430	LONG-(W) 80.762954
NAD'83 UTM (M)	N. 4,403,192.49	E. 520,299.44
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 470,303.4	E. 1,617,034.7
NAD'83 GEO.	LAT-(N) 39.784506	LONG-(W) 80.750690
NAD'83 UTM (M)	N. 4,403,869.6	E. 521,347.6
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 480,991.8	E. 1,611,061.2
NAD'83 GEO.	LAT-(N) 39.813817	LONG-(W) 80.772412
NAD'83 UTM (M)	N. 4,407,095.6	E. 519,479.6

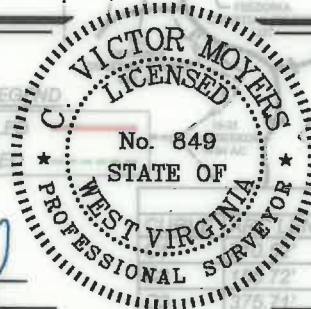
REFERENCES

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS, > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF OLD CROW N-20HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PERMITTING WELLS
BRYAN N 13HU (47-051-02030),
BRYAN N 14HU (47-051-02031),
OLD CROW N-17HU (47-051-02122),
OLD CROW N-18HU (47-051-02123),
OLD CROW N-19HU (47-051-2190)
MND20 AU (47-051-02011),
MND20 BU (47-051-02012), &
MND20 CU (47-051-02013).
MND20 DU (47-051-02014).
- THE ASSESSMENT OF THE 1/10 ACRE LOT, OWNED BY JASON J. STEED AND DESCRIBED AS THE SECOND PARCEL IN DEED BOOK 843 PAGE 319 AND CORRECTIVE DEED 843 PAGE 300, IS NOT CURRENTLY ACCOUNTED FOR WITHIN THE 135.61 ACRE ASSESSMENT OF SURFACE TAX MAP 5-9-13.2.
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Venhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.344.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsvv.com



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JULY 9 20 20
 REVISED _____
 OPERATORS WELL NO. OLD CROW N-20HU
 API WELL NO. 47 051 2191
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 17.2500 FILE NO. 8796P20HUAD.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
 SCALE 1" = 2000'
 OLD CROW NORTH 20HU REV5

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: GROUND = 1,288.00' PROPOSED = 1,264.99' WATERSHED TRIBUTARY OF FISH CREEK (HUC-10)
 DISTRICT FRANKLIN COUNTY MARSHALL QUADRANGLE POWHATAN POINT 7.5"
 SURFACE OWNER DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO ACREAGE 71.205±
 ROYALTY OWNER DONNA VIVIAN YOHO, ET AL - SEE ADDITIONAL SHEETS ACREAGE 71.205±
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) 2191 TARGET FORMATION POINT PLEASANT
 ESTIMATED DEPTH TVD: 11,561' / TMD: 25,077'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

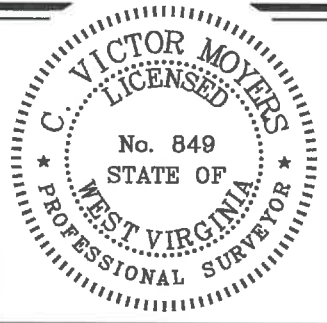
**OLD CROW N LEASE
UTICA UNIT - 503.48 AC ±
WELL 20HU
TUG HILL OPERATING**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.9296
slsw.com

No.	Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Deed Book/Page
1	10*19340	A	5-16-3	DONNA V YOHO	665 407
2	10*14919	B	5-16-5	CHESTNUT HOLDINGS INC	836 117
3	10*14920	C	5-10-14	CHESTNUT HOLDINGS INC	836 119
4	10*21468	D	5-16-6	JOHN A SWIERKOS	953 317
5	10*18396	E	5-10-22	LOUIS AULENBACHER	932 468
6	10*21468	E	5-10-22	JOHN A SWIERKOS	953 317
7	10*21468	F	5-10-19	JOHN A SWIERKOS	953 317
8	10*47051.261.4	F	5-10-19	BRADLEY L HUBBARD AND CONNIE L HUBBARD	898 573
9	10*18396	G	5-10-20	LOUIS AULENBACHER	932 468
10	10*21468	G	5-10-20	JOHN A SWIERKOS	953 317
11	10*18396	H	5-10-21	LOUIS AULENBACHER	932 468
12	10*21468	H	5-10-21	JOHN A SWIERKOS	953 317
13	10*21468	I	5-10-12.1	JOHN A SWIERKOS	953 317
14	10*47051.261.1	I	5-10-12.1	WILLIAM HUBBARD	882 536
15	10*47051.261.2	I	5-10-12.1	BONNIE G ZELIC	882 539
16	10*47051.261.3	I	5-10-12.1	JOHN P SMITH JR	882 542
17	10*47051.261.4	I	5-10-12.1	BRADLEY L HUBBARD AND CONNIE L HUBBARD	898 573
18	10*18892	J	5-10-12	JOSEPH LEE CROW	966 88
19	10*18302	K	5-10-11	JOSEPH L CROW JR AND LORRY CROW	929 316
20	10*21468	L	5-10-10	JOHN A SWIERKOS	953 317
21	PENDING	L	5-10-10	LOUIS VAN SCYOC AND PATRICIA VAN SCYOC	697 461
22	10*22295	L	5-10-10	RACHEL B OSTRANDER	822 210
23	10*22319	L	5-10-10	SHARON G VAN SCYOC	822 204
24	10*19249	M	5-10-9	HERBERT M AULENBACHER	914 551
25	10*14918	N	5-10-3	CHESTNUT HOLDINGS INC	836 115
26	Q091960000	O	FISH CREEK	STATE OF WEST VIRGINIA DIVISION OF NATURAL RESOURCES	865 558
27	10*18594	P	5-10-4.7	LEE JONATHAN BECHTOLD	934 646
28	10*18594	P	5-10-4.7	LINDA L & THOMAS G MCCORMICK	934 643
29	10*18594	P	5-10-4.7	LW BECHTOLD	934 641
30	10*19248	Q	5-10-4	ALBERT F KAZEMKA	848 419
31	10*21571	R	5-10-4.2	JACK E RECTOR	957 476
32	10*19163	S	5-10-4.3	ANTHONY A ANKROM KAREN LANKROM	711 468
33	10*18158	T	5-10-4.8	SAMUEL D FRANKLIN AND RHONDA K FRANKLIN	938 462
34	10*19248	U	5-10-4.12	ALBERT F KAZEMKA	848 419
35	10*19131	V	5-10-4.9	LISA D ELSON	764 16
36	10*19108	W	5-10-4.11	JASON E BONNETTE	848 438
37	10*19107	X	5-10-4.10	ALBERT F KAZEMKA	853 73
38	10*47051.162.0	Y	5-9-13	KAREN M WILSON	873 150
39	10*19107	Z	5-9-16	ALBERT F KAZEMKA	853 73
40	10*47051.170.0	AA	5-9-13.2	JASON J STEED	865 344
41	10*47051.260.0	BB	5-10-2	WILLIAM A PRASCIC , CATHERINE A PRASCIC, LORI J PRASCIC, FRANCIS C PRASCIC	879 302
42	Q078672000	CC	5-9-14	DENNIS P CADMUS	808 311
43	10*47051.127.1	DD	5-9-20	EDWIN C MILLER AND KIMBERLY ANN MILLER	885 61
44	10*18796	EE	5-9-15	DWG OIL & GAS ACQUISITIONS LLC	938 476
45	10*21414	EE	5-9-15	CHARLES R STOCKTON AND BETTY M HUDSON STOCKTON	959 310
46	10*21473	EE	5-9-15	MARY E BISHOP	957 232
47	10*21475	EE	5-9-15	WOODROW N WARD AND HILDA A WARD	957 124
48	10*21478	EE	5-9-15	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
49	10*21547	EE	5-9-15	GARY A MILLER AND MARCELLE T MILLER	952 370
50	10*21548	EE	5-9-15	JEANNE M MILLER	952 386
51	10*21608	EE	5-9-15	BONNIE LOU POSTLEWAIT	959 313
52	10*21719	EE	5-9-15	ROBERT A MILLER	952 389
53	10*21835	EE	5-9-15	KENNETH ALLEN AND CARLA JO ALLEN	962 572
54	10*21937	EE	5-9-15	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
55	10*22044	EE	5-9-15	MICHAEL A BISHOP	960 421
56	10*22045	EE	5-9-15	DOUGLAS R BISHOP	961 417
57	10*22296	EE	5-9-15	NOAH BAKER AND ALISA BAKER	962 200
58	10*22326	EE	5-9-15	RACHEL SONDA AND SCOTT SONDA	962 532
59	10*22407	EE	5-9-15	BRADLEY MURPHY	962 575
60	10*22430	EE	5-9-15	DEBORAH VANVRANKEN	964 510
61	10*22451	EE	5-9-15	GERALD L BISHOP III	964 31
62	10*22492	EE	5-9-15	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
63	10*22547	EE	5-9-15	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
64	10*22566	EE	5-9-15	KENNETH A MILLER	964 233
65	10*22606	EE	5-9-15	ROBERT B MURPHY AND LINDA MURPHY	966 469
66	10*22636	EE	5-9-15	CHANDA WILSON AND DANIEL WILSON	968 226
67	10*23035	EE	5-9-15	DEAN S CARR	977 364
68	10*23508	EE	5-9-15	MICHAEL A MURPHY	1009 98
69	10*24888	EE	5-9-15	ARTHUR LEE MILLER ET AL	1027 187
70	10*24964	EE	5-9-15	JONATHAN BAKER	1027 558
71	Q090332002	EE	5-9-15	LORETTA JEAN RIGGLE ET VIR	860 538
72	Q090332003	EE	5-9-15	PATTY BERISFORD ET VIR	860 555
73	Q090332007	EE	5-9-15	ROBERT RANDOLPH WOODBURN ET UX	860 568
74	Q090332001	EE	5-9-15	WILLIAM E MILLER AND KAREN S MILLER	858 256
75	PENDING	EE	5-9-15	SANDRA PARDINI AKA KATHERINE S PARDINI AND ALLEN F PARDINI	1031 544
76	10*18796	FF	5-9-17.1	DWG OIL & GAS ACQUISITIONS LLC	938 476
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81	10*21547	FF	5-9-17.1	GARY A MILLER AND MARCELLE T MILLER	952 370
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89	10*22296	FF	5-9-17.1	NOAH BAKER AND ALISA BAKER	962 200
90	10*22326	FF	5-9-17.1	RACHEL SONDA AND SCOTT SONDA	962 532
91	10*22407	FF	5-9-17.1	BRADLEY MURPHY	962 575
92	10*22430	FF	5-9-17.1	DEBORAH VANVRANKEN	964 510
93	10*22451	FF	5-9-17.1	GERALD L BISHOP III	964 31
94	10*22492	FF	5-9-17.1	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
95	10*22547	FF	5-9-17.1	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
96	10*22566	FF	5-9-17.1	KENNETH A MILLER	964 233
97	10*22606	FF	5-9-17.1	ROBERT B MURPHY AND LINDA MURPHY	966 469
98	10*22636	FF	5-9-17.1	CHANDA WILSON AND DANIEL WILSON	968 226
99	10*23035	FF	5-9-17.1	DEAN S CARR	977 364
100	10*23508	FF	5-9-17.1	MICHAEL A MURPHY	1009 98

FILE NO. 8796P20HUAD.dwg
OLD CROW NORTH 20HU REV5
 DATE JULY 9, 20 20
 REVISED _____
 OPERATORS WELL NO. OLD CROW N-20HU
 API WELL NO. 47 — 051 — 2191
 STATE COUNTY PERMIT



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 05/13/2022
 P.S. 849 *C. Victor Moyers*

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107
 DESIGNATED AGENT DIANNA STAMPER ADDRESS CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

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103	Q090332002	FF	5-9-17.1	LORETTA JEAN RIGGLE ET VIR	860 538
104	Q090332003	FF	5-9-17.1	PATTY BERISFORD ET VIR	860 555
105	Q090332007	FF	5-9-17.1	ROBERT RANDOLPH WOODBURN ET UX	860 568
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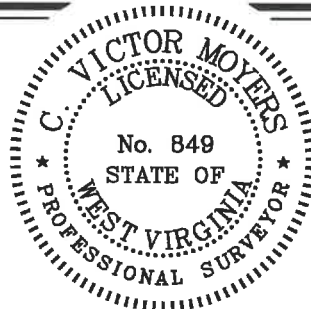
FILE NO. 8796P20HUAD.dwg
OLD CROW NORTH 20HU REV5

DATE JULY 9, 20 20

REVISED

OPERATORS WELL NO. OLD CROW N-20HU

API WELL NO. 47
STATE COUNTY PERMIT



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



05/13/2022

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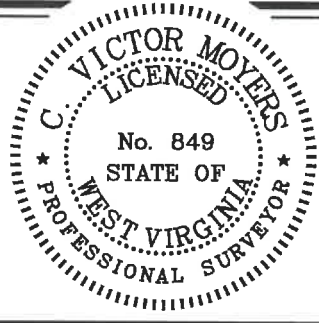
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206	CVX866959	JJ	5-9-24	PAUL SCHEIBELHOOD ET AL	695 629
207	CVX935271	JJ	5-9-24	CHARLES W. MILLER	853 59
208	CVX936061	JJ	5-9-24	CLARA MAE CLIFTON	853 426
209	CVX936112	JJ	5-9-24	DONNA FAE KYLE	853 449
210	CVX936062	JJ	5-9-24	GEORGE EDWARDS ET UX	853 418
211	CVX936113	JJ	5-9-24	JUDITH MAY CONNER	853 445
212	CVX936053	JJ	5-9-24	LLOYD C. ARNOLD ET UX	864 39
213	CVX936054	JJ	5-9-24	MARY JO CRONIN	864 43
214	CVX935273	JJ	5-9-24	PAUL PARSONS ET UX	853 430
215	CVX936058	JJ	5-9-24	RICHARD KURPIL ET UX	863 594
216	CVX935276	JJ	5-9-24	SHARON LYN RUSSELL	853 422
217	CVX935969	JJ	5-9-24	TIMOTHY HUFF ET UX	864 47
218	10*47051.097.0	KK	5-9-7	P & D REALTY	859 434
219	PENDING	LL	5-9-41	LLOYD C ARNOLD AND JUDITH C ARNOLD	915 625
220	CVX939752	MM	5-9-4	LLOYD C ARNOLD AND JUDITH C ARNOLD	915 582
221	CVX866959	NN	5-9-35	ANITA L SLOUGH ET AL	696 7
222	CVX866958	NN	5-9-35	PAUL SCHEIBELHOOD ET AL	695 629
223	CVX936061	NN	5-9-35	CLARA MAE CLIFTON	853 426
224	CVX936112	NN	5-9-35	DONNA FAE KYLE	853 449
225	CVX936062	NN	5-9-35	GEORGE EDWARDS ET UX	853 418
226	CVX936113	NN	5-9-35	JUDITH MAY CONNER	853 445
227	CVX936053	NN	5-9-35	LLOYD C. ARNOLD ET UX	864 39
228	CVX936054	NN	5-9-35	MARY JO CRONIN	864 43
229	CVX935273	NN	5-9-35	PAUL PARSONS ET UX	853 430
230	CVX936058	NN	5-9-35	RICHARD KURPIL ET UX	863 594
231	CVX935276	NN	5-9-35	SHARON LYN RUSSELL	853 422
232	CVX935969	NN	5-9-35	TIMOTHY HUFF ET UX	864 47
233	Q081124002	OO	5-9-3	JAMES REDMAN LEGG II ET AL	879 580
234	Q081124002	PP	5-9-2	JAMES REDMAN LEGG II ET AL	879 580
235	Q081129002	QQ	5-9-2.1	JEFFREY L LEGG	879 575
236	Q083757000	RR	5-9-1	JESSIE GLADYS RUCKMAN ET AL	831 58
237	10*21546	SS	5-8-7	EDWIN C MILLER AND KIMBERLY ANN MILLER	957 257

FILE NO. 8796P20HUAD.dwg
OLD CROW NORTH 20HU REV5
 DATE JULY 9, 20 20
 REVISED _____
 OPERATORS WELL NO. OLD CROW N-20HU
 API WELL NO. 47 — 051 — 2191
 NO. STATE COUNTY PERMIT



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 05/13/2022
 P.S. 849 *C. Victor Moyers*

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107
 DESIGNATED AGENT DIANNA STAMPER ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313
 CT CORPORATION SYSTEM

COUNTY NAME PERMIT